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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|---------------|----------------------|-------------------------|------------------|
| 09/850,254 | 05/07/2001 | Hisamitsu Kimoto | N13476100S | 1494 |
| | 90 03/26/2003 | | | |
| Darryl G. Walker WALKER & SAKO, LLP | | | EXAMINER | |
| Suite 235 300 South First Street | | | QUINTO, KEVIN V | |
| San Jose, CA 95113 | | | ART UNIT | PAPER NUMBER |
| | | | 2826 | |
| | | | DATE MAILED: 03/26/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Ameliant | | ·Vm_ |
|--|--|--|--------------|
| | Application | Applicant(s) | |
| Office Acti n Summary | 09/850,254 KIMOTO, HISAMITSU | | TSU |
| a mee riou ii dummary | Examin r | Art Unit | |
| The MAILING DATE fithis communication of | Kevin Quinto | 2826 | |
| The MAILING DATE f this communication appeared for Reply | opears on the cover sheet w | ith the correspondence ad | dress |
| A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statuted the complex period for reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status | 136(a). In no event, however, may a rolly within the statutory minimum of thir will apply and will expire SIX (6) MON | reply be timely filed by (30) days will be considered timely ITHS from the mailing date of this co | mmunication. |
| i | | | |
| 20\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | |
| 25) | his action is non-final. | | |
| 3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims | rance except for formal mat Ex parte Quayle, 1935 C.[| ters, prosecution as to the D. 11, 453 O.G. 213. | merits is |
| 4) Claim(s) 1-20 is/are pending in the application | n. | | |
| 4a) Of the above claim(s) <u>14-20</u> is/are withdray | | | |
| 5) Claim(s) is/are allowed. | and a constant at the constant | | |
| 6)⊠ Claim(s) <u>1,2,7,8 and 13</u> is/are rejected. | | | |
| 7)⊠ Claim(s) <u>3-6 and 9-12</u> is/are objected to. | | | |
| 8) Claim(s) are subject to restriction and/o | r election requirement | • | |
| Application Papers | · ologion requirement. | | |
| 9)☐ The specification is objected to by the Examine | r. | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accep | oted or b) objected to by th | e Examiner | |
| Applicant may not request that any objection to the | e drawing(s) be held in abevar | nce. See 37 CFR 1 85(a) | |
| 11) Ine proposed drawing correction filed on | _is: a)□ approved b)□ dis | sapproved by the Examiner. | |
| If approved, corrected drawings are required in rep | ply to this Office action. | • | |
| 12)☐ The oath or declaration is objected to by the Exa | aminer. | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | |
| 13) Acknowledgment is made of a claim for foreign | priority under 35 U.S.C. § | 119(a)-(d) or (f). | |
| a)∐ All b)∏ Some * c)∏ None of: | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Certified copies of the priority documents | have been received. | | |
| 2. Certified copies of the priority documents | have been received in Ap | olication No. | |
| 3. Copies of the certified copies of the priori | ity documents have been re | eceived in this National St | age |
| * See the attached detailed Office action for a list of | of the certified copies not re | eceived. | |
| 14) Acknowledgment is made of a claim for domestic | priority under 35 U.S.C. § | 119(e) (to a provisional ap | oplication). |
| a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic | /ISIOnal application has bee | n received. | |
| Attachment(s) | priority under 35 U.S.C. § | 9 120 and/or 121. | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | E\ | mmary (PTO-413) Paper No(s). ormal Patent Application (PTO-1 | 52) |
| S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Acti | on Summary | Part of Pap | per No. 10 |

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 8 January 2003 have been fully considered but they are not persuasive. It is the examiner's belief that Sanada still meets the limitations of claims 1, 2, 7, 8, and 13 since figure 7 of Sanada can be interpreted such that the first wiring which extends in a first direction is in a first region of the substrate while the second wiring which extends in a second direction is in a second region of the substrate.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, 7, 8, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanada (USPN 5,329,139).
- 4. In reference to claim 1, Sanada (USPN 5,329,139) discloses a device which meets the claim. Figure 7 of Sanada illustrates a plurality of device elements (32, 33) formed on a surface of the semiconductor substrate. Each of the device elements (32, 33) has diffusion regions (32a, 32b, 33a, 33b). There is a multi-layer wiring configuration (34d, 34e) that is electrically connected to at least two of the diffusion

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regions (32b, 33b). A first one (34d) of the plurality of wiring layers has a first wiring region which extends in a first direction and a second wiring region which extends in a second direction.

- 5. With regard to claim 2, it can be seen in figure 7 of Sanada that the first one (34d) of the plurality of wiring layers has a first wiring region which extends in a first direction and a second wiring region which extends in a second direction that is perpendicular to the first direction.
- 6. In reference to claims 7 and 13, Sanada discloses a device which meets the claim. Figure 7 of Sanada illustrates a plurality of device elements or IGFETs (32, 33) formed on a surface of the semiconductor substrate. Each of the device elements (32, 33) has diffusion regions (source and drain regions: 32a, 32b, 33a, 33b). There is a multi-layer wiring configuration (34d, 34e) that is electrically connected to at least two of the diffusion or drain regions (32b, 33b). A first one (34d) of the plurality of wiring layers has a first wiring region which extends in a first direction and a second wiring region which extends in a second direction. It is understood that there is a plurality of functional circuit blocks; each with a plurality of device elements with first and second wiring regions.
- 7. With regard to claim 8, it can be seen in figure 7 of Sanada that the first one (34d) of the plurality of wiring layers has a first wiring region which extends in a first direction and a second wiring region which extends in a second direction that is perpendicular to the first direction.

Allowable Subject Matter

8. Claims 3-6 and 9-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. The following is a statement of reasons for the indication of allowable subject matter: the examiner is unaware of any prior art which suggests a semiconductor device having the wiring layout and material requirements as claimed by the applicant.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (703) 306-5688. The examiner can normally be reached on M-F 8AM-5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

KVQ March 24, 2003

> NATHAN J. FLYNN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800